

**CHAPTER 2**  
**SCIENCE INQUIRY****Exploring the Different Ways  
that Cells Divide****BLM 2-13**

**Goal** • Use this page to explore the concepts around cell division.

**What to Do**

- Answer the questions below in full sentences. For assistance, refer to pages 53–55 of *SCIENCEPOWER™ 8*.

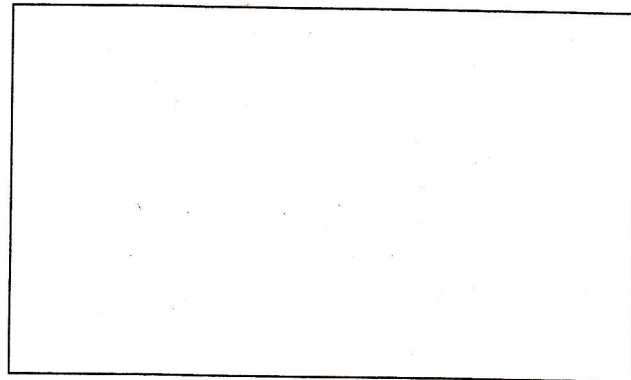
1. Why do you think cells divide? \_\_\_\_\_

2. What is regeneration? \_\_\_\_\_

3. What is mitosis? \_\_\_\_\_

4. Complete the following number pattern: 1    2    4    8    16    \_\_\_\_\_

5. Describe how the pond organism called hydra is able to “grow” more body parts. Include a diagram beside your description, in the empty box.



6. Which cells in your body are replaced after a few days or weeks? \_\_\_\_\_

7. Which cells in your body last the longest? \_\_\_\_\_

8. How long do they last? \_\_\_\_\_

9. Give three examples of how organisms use regeneration to grow new body parts:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

10. How can a flower shop use a plant’s ability to regenerate to make more profit?

\_\_\_\_\_

\_\_\_\_\_